

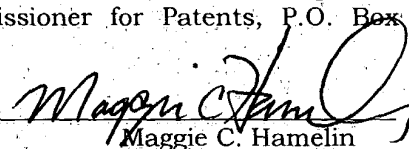
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: M. Sawada
SERIAL NO.: Not Yet Assigned GROUP: Not Yet Assigned
FILED: Herewith EXAMINER: Not Yet Assigned
FOR: ESTABLISHED CELL LINE OF MICROGLIA

CERTIFICATE OF EXPRESS MAILING

I hereby certify that, on the date shown below, this correspondence and any paper referred to as being attached hereto are being deposited with the United States Postal Service with sufficient postage in an envelope as "Express Mail Post Office Addressee," Express Mailing Label No. EV343734965US addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: June 25, 2003

Signature: 
Maggie C. Hamelin

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- a. ☒ Submitted herewith is a legible copy of (i) each U.S and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.

III. CONCISE EXPLANATION OF THE RELEVANCE

(check at least one box)

- a. ☒ Except as may be indicated below in (b), all of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).

- b. ☒ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:
See English Abstract for References
- c. ☒ The following additional information is provided for the Examiner's consideration:
See Office Actions from the Japanese Patent Office dated July 2, 2002 and October 29, 2002; and Office Communication from the European Patent Office dated March 21, 2001.

FEES

IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)
(check one box)

- a. ☒ within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1)). No fee or certification is required.
- b. ☐ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.
- c. ☐ before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):
(check one box)

- ☐ before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)).
- a. ☐ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
- or
- b. ☐ See the certification below. No fee is required.

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby certifies that

- a. ☐ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
- b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.
- c. ☐ Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

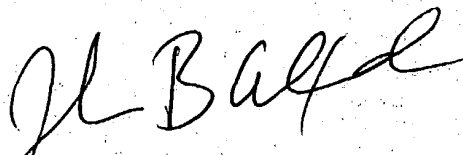
- ☐ Please charge Deposit Account No. 04-1105 in the amount of \$ _____ for the above-indicated fee. A triplicate copy of this paper is attached.
- ☒ No fee is required.
- ☐ Fee enclosed, check in the amount of \$ 180.00.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		DOCKET NO.: 48781-DIV(71526)		SERIAL NO.: Not Yet Assigned			
		APPLICANT(S): M. Sawada					
		FILING DATE: Herewith		GROUP NO.: Not Yet Assigned			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO
	BA	5-49473	2/1993	Japan			NO
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
✓	CA	D.D. Mosser et al., "Use of the Dicistronic Expression Cassette Encoding the Green Fluorescent Protein for the Screening and Selection of Cells Expressing Inducible Gene Products," Biotechniques vol. 22, No.1 (1997) 150-161.					
✓	CB	F. Alliot et al. "A Spontaneously Immortalized Mouse Microglial Cell Line Expressing CD45," Development Brain Research 95 (1996) 140-143.					
	CC	S. Eriksson et al., "Green fluorescent protein as a tool for screening recombinant baculoviruses," Journal of Virological Methods 59 (1996) 127-133.					
	CD	L. Bittling et al., "Amyloid Peptide Secretion by a Microglial Cell Line Is Induced by Amyloid (25-35) and Lipopolysaccharide," J. of Bio. Chem. Vol. 271, No. 27 (1996) pp. 16084-16089.					
	CE	M. Sawada, et al., 237, vol. 35 (No.3 (1996).					
	CF	M. Sawada et al., "Cytokine Network In The Central Nervous System And Its Roles In Growth And Differentiation Of Glial And Neuronal Cells," Int. J. Devel. Neuroscience, Vol. 13, No. 3/4, pp.253-264, 1995.					
	CG	S. Delagrave et al., "Red-Shifted Excitation Mutants of the Green Fluorescent Protein," Bio/Technology Vol. 13, 1995, 151-154.					
	CH	H.G. Fischer et al., "Cytokine-Dependent K ⁺ Channel Profile of AMicroglia at Immunologically Defined Functional States," Neuroscience, vol. 64, No. 1, pp.183-191, 1995.					
	CI	U. Monning et al., "Extracellular Matrix Influences the Biogenesis of Amyloid Precursor Protein in Microglial Cells," J. of Bio. Chem. Vol. 270, No. 13 (1995) pp. 7104-7110.					
	CJ	J. Gehrmann, "Colony-stimulating factors regulate programmed cell death of rat microglia/brain macrophages in vitro," J. Neuroimmunology, 63 (1995) pp. 55-61.					
	CK	J. McLaurin et al., "Immortalization and characterization of rat microglial cells," Neuropathol. Appl. Neurobiol., Vol. 21, P. 302-311 (1995).					
	CL	S. Ishihara et al., "Brain Vessels near Muscle Autografts Are Sites for Entry of Isogeneic Macrophages into Brain," Experimental Neurology 124, 219-230 (1993).					
	CM	K. Nakajima et al., "Microglia isolated from rat brain secrete a urokinase-type plasminogen activator," Brain Research, 577 (1992) pp.285-292.					
	CN	M. Sawada et al., "Activation and proliferation of the microglia by colony stimulating factor-1 and possible involvement of protein kinase C," Brain Research, 509 (1990) 119-124.					
	CO	"Colony Stimulating Factor," vol. 28, No. 1 (1989) pp. 52-53.					
	CP	A. Suzumura et al., "Selective Induction of interleukin in mouse microglia by granulocyte-macrophage colony-stimulating factor," Brain Research 713 (1996) 192-1998.					

Applicants: M. Sawada
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If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition, if necessary) and charge the appropriate fee to Deposit Account No. 04-1105.

Respectfully submitted,



June 23, 2003

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REC'D 21 MAR 2001

Action by.....

Datum/Date

21.03.01

Zeichen/Ref./Réf.

N.75629 TAC

Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.

98905808.6-2105-JP9800949

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

Japan Science and Technology Corporation

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





European Patent
Office

SUPPLEMENTARY
EUROPEAN SEARCH REPORT

Application Number
EP 98 90 5808

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	SUZUMURA AKIO ET AL: "Selective induction of interleukin-6 in mouse microglia by granulocyte-macrophage colony-stimulating factor." BRAIN RESEARCH, vol. 713, no. 1-2, 1996, pages 192-198, XP000982667		C12N5/06 C12N5/10 C12N15/12 G01N33/48 A61K35/30 A61K48/00
A	SAWADA MAKOTO ET AL: "Production of interleukin-5 by mouse astrocytes and microglia and culture." NEUROSCIENCE LETTERS, vol. 155, no. 2, 1993, pages 175-178, XP002161941		
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			C12N A61K
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search THE HAGUE		Date of completion of the search 2 March 2001	Examiner Teyssier, B
CATEGORY OF CITED DOCUMENTS			
X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document	